

第 1584 回 天文学教室談話会

2016 年 3 月 22 日 (火) 16:30 より

東京大学理学部 1 号館西棟 11 階 1109 号室 (天文学専攻会議室) にて

“Near-Infrared Linear and Circular Polarimetry in Star Forming Regions”

Jungmi Kwon (天文学教室)

Polarimetry is a unique tool for studying the physical processes in the interstellar medium, including star-forming regions. However, it has been much less explored than conventional photometry and spectroscopy. Infrared polarimetry provides very valuable information about the distribution of matter of young stellar objects and the configuration of magnetic fields within molecular clouds. Compared with linear polarization (LP), only a few near-infrared circular polarization (CP) observations were reported so far (before our survey). I have conducted a first systematic polarization survey of star forming regions in both LP and CP. In this presentation, I present our investigation for roles of magnetic fields in cluster formation using linear polarimetry as well as new information of magnetic and scattering fields obtained by the circular polarimetry survey.